T02T90 "h0268860

FIG. 1

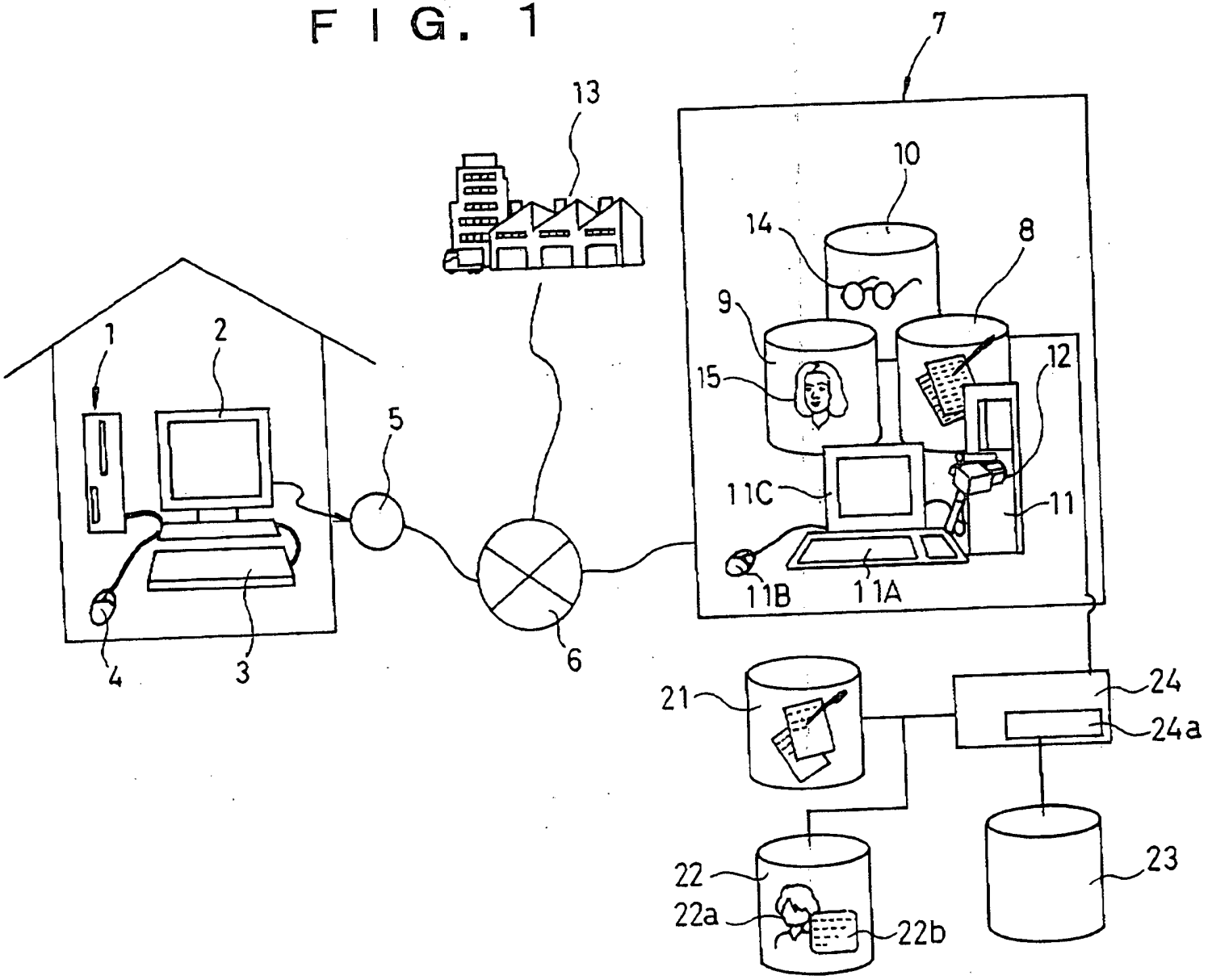


FIG. 2(a)

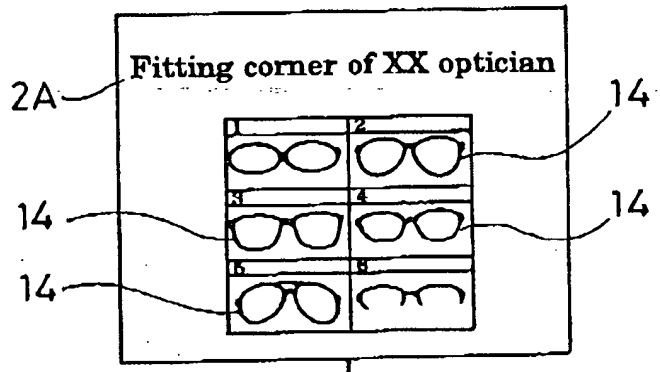



FIG. 2(b)

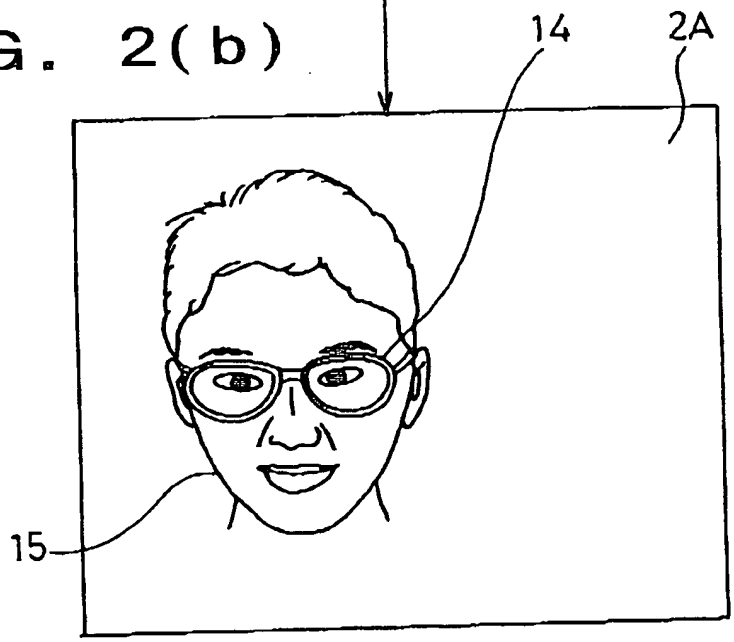


FIG. 3

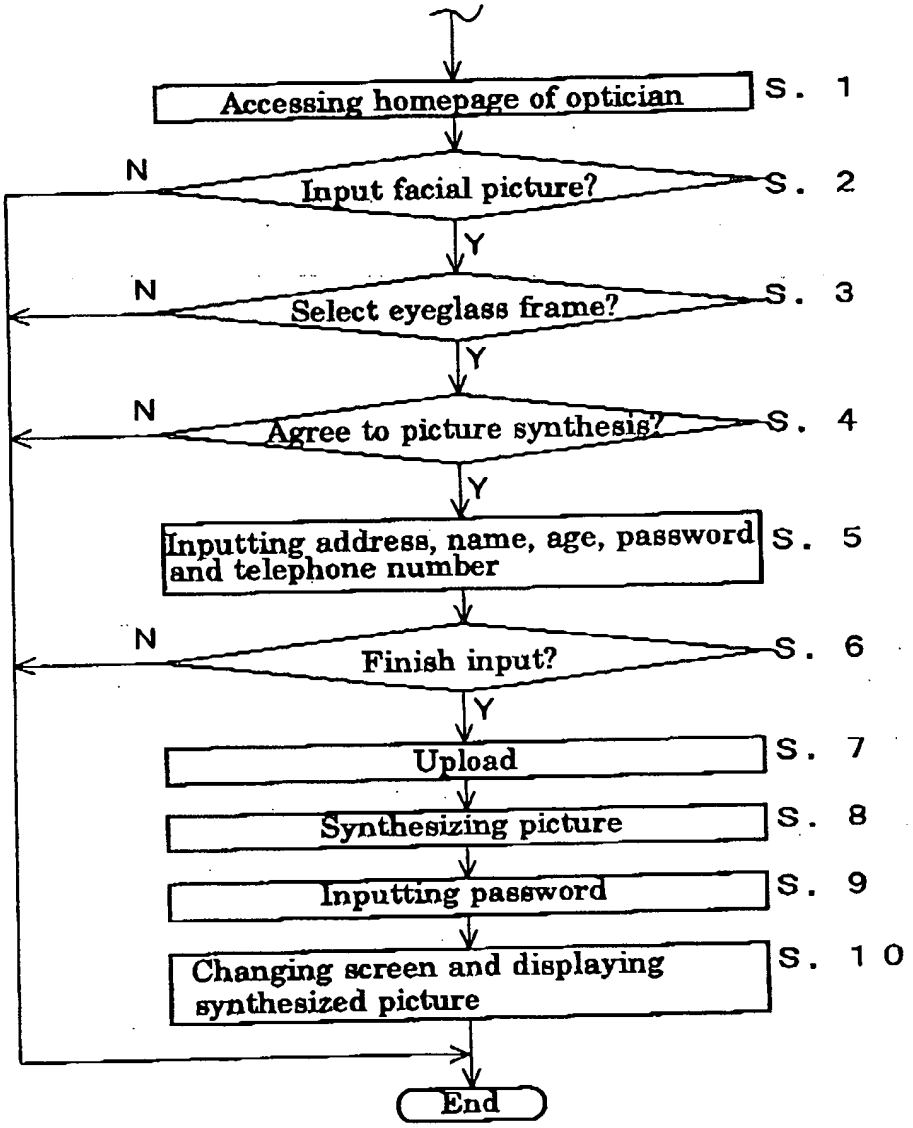
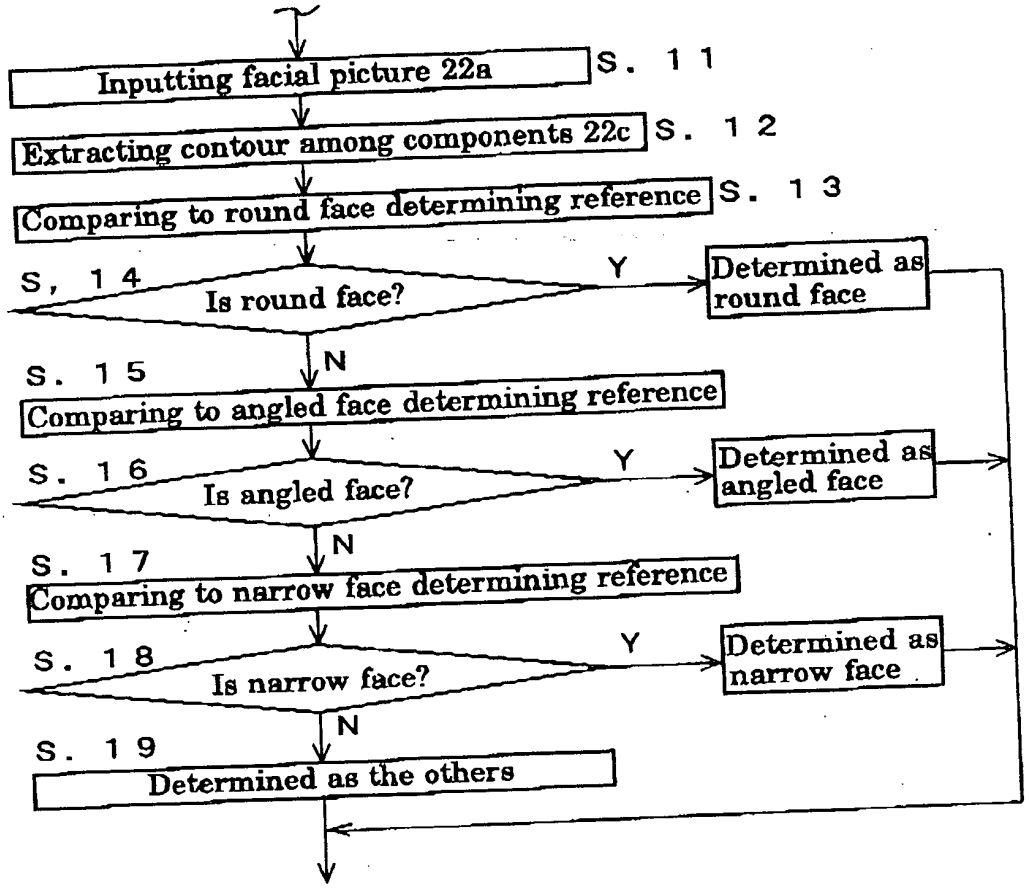

Accessing homepage of optician
S. 1
Input facial picture?
N
S. 2
Y
Select eyeglass frame?
N
S. 3
Y
Agree to picture synthesis?
N
S. 4
Y
Inputting address, name, age, password and telephone number
S. 5
Finish input?
N
S. 6
Y
Upload
S. 7
Synthesizing picture
S. 8
Inputting password
S. 9
Changing screen and displaying synthesized picture
S. 10
End

FIG. 4


Inputting facial picture 22a
S. 11
Extracting contour among components 22c
S. 12
Comparing to round face determining reference
S. 13
S, 14
Is round face?
Y
Determined as round face
N
S. 15
Comparing to angled face determining reference
S. 16
Is angled face?
Y
Determined as angled face
N
S. 17
Comparing to narrow face determining reference
S. 18
Is narrow face?
Y
Determined as narrow face
N
S. 19
Determined as the others

# FIG. 5

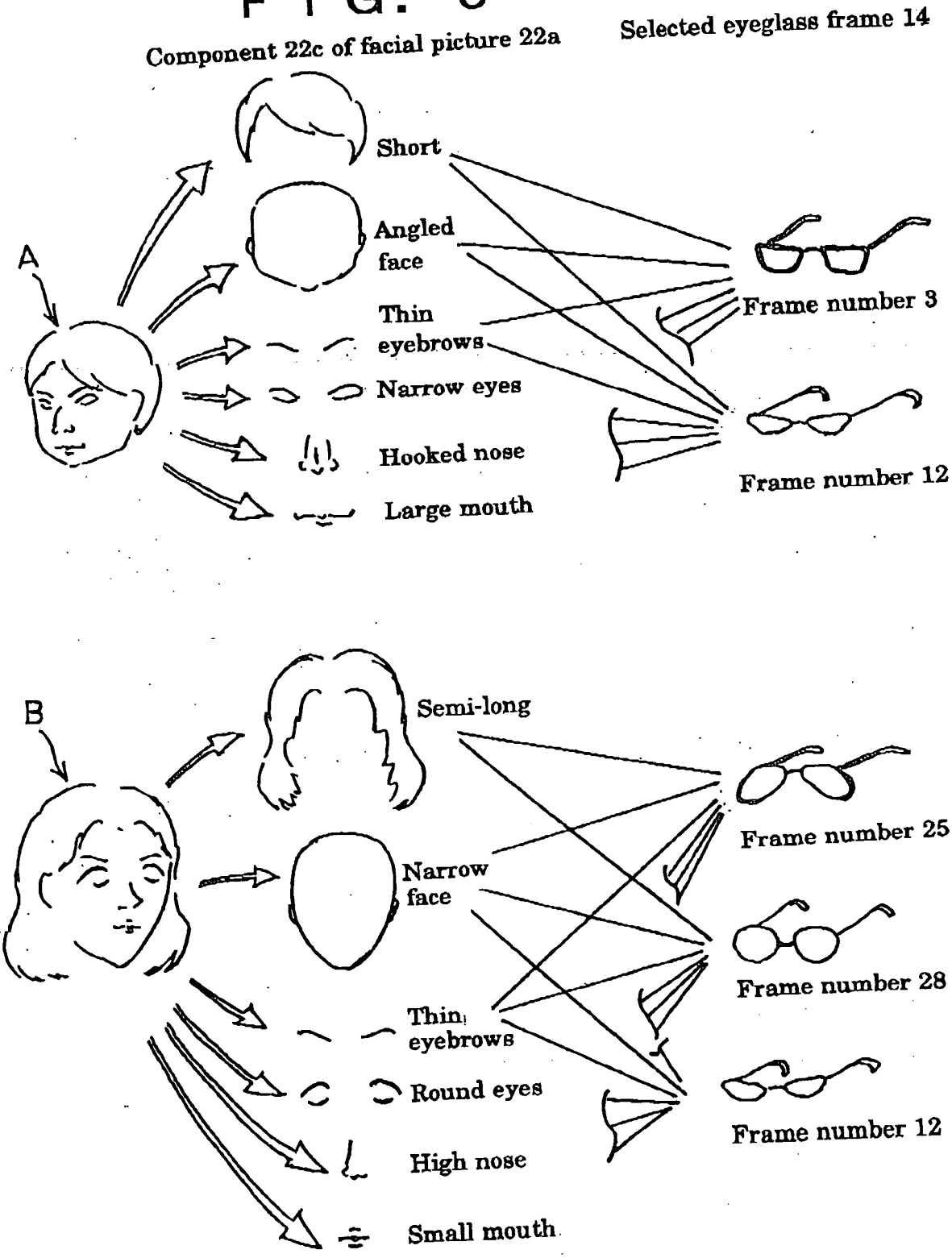

Component 22c of facial picture 22a
Selected eyeglass frame 14
A
Short
Angled face
Thin eyebrows
Narrow eyes
Hooked nose
Large mouth
Frame number 3
Frame number 12
B
Semi-long
Narrow face
Thin eyebrows
Round eyes
High nose
Small mouth
Frame number 25
Frame number 28
Frame number 12

FIG. 6

| Component 22c | Type | |
|---|---|---|
| Hairstyle | Short | No.1 |
| | | No.2 |
| | | No.3 |
| | | : |
| | Semi-long | No.1 |
| | | No.2 |
| | | No.3 |
| | | : |
| | Long | No.1 |
| | | No.2 |
| | | No.3 |
| | | : |
| | : | : |
| Contour | Round face | No.1 |
| | | No.2 |
| | | No.3 |
| | | : |
| | Angled face | No.1 |
| | | No.2 |
| | | No.3 |
| | | : |
| | Narrow face | No.1 |
| | | No.2 |
| | | No.3 |
| | | : |
| | : | : |
| Eyebrows | Thin eyebrows | No.1 |
| | | No.2 |
| | | No.3 |
| | | : |
| | Thick eyebrows | No.1 |
| | | No.2 |
| | | No.3 |
| | | : |
| | : | : |
| Eyes | Narrow eyes | No.1 |
| | | No.2 |
| | | No.3 |
| | | : |
| | Round eyes | No.1 |
| | | No.2 |
| | | No.3 |
| | | : |
| | : | : |
| : | : | : |

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FIG. 7

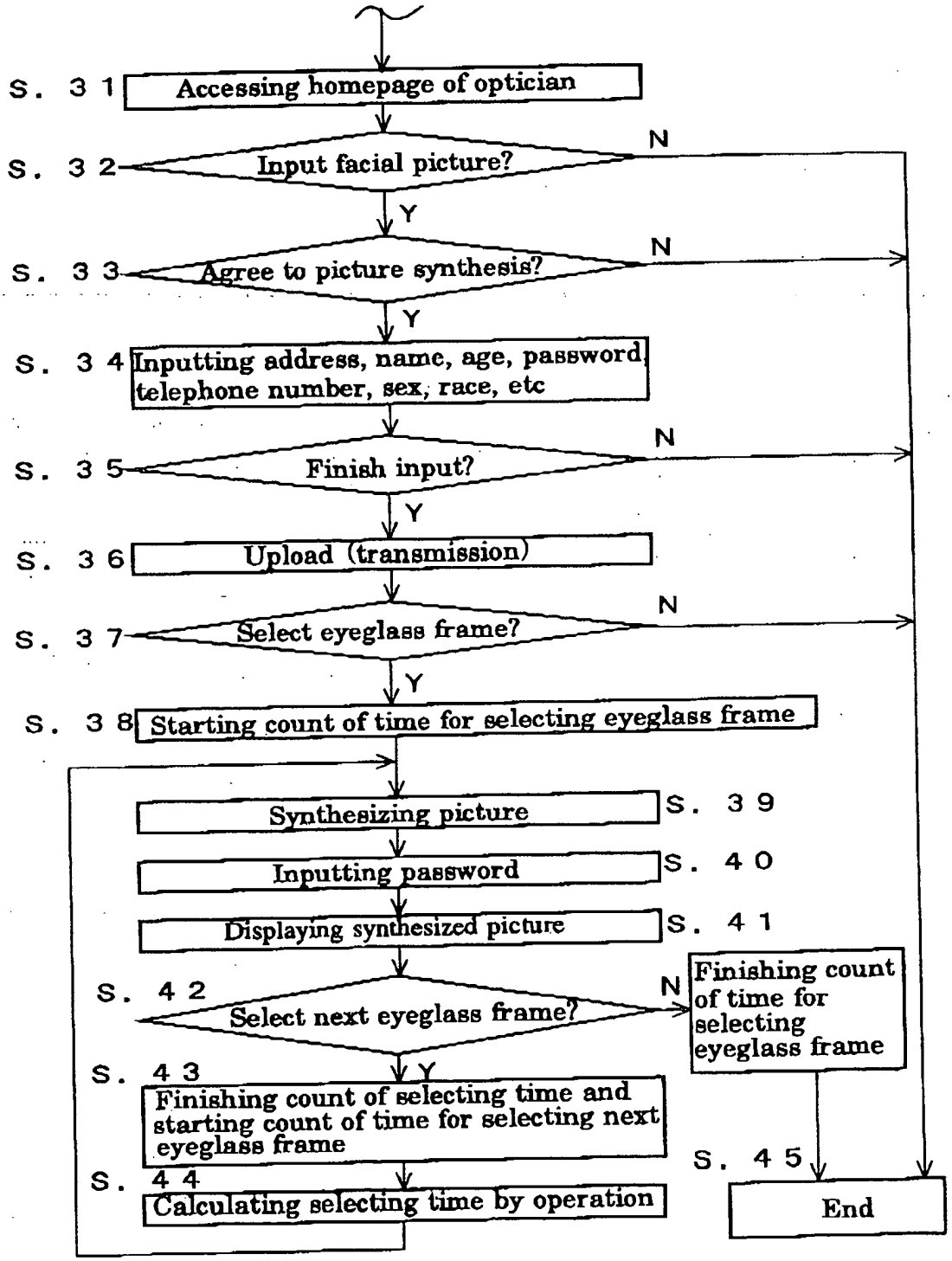
S. 31
Accessing homepage of optician
S. 32
Input facial picture?
N
Y
S. 33
Agree to picture synthesis?
N
Y
S. 34
Inputting address, name, age, password, telephone number, sex, race, etc
S. 35
Finish input?
N
Y
S. 36
Upload (transmission)
S. 37
Select eyeglass frame?
N
Y
S. 38
Starting count of time for selecting eyeglass frame
Synthesizing picture
S. 39
Inputting password
S. 40
Displaying synthesized picture
S. 41
S. 42
Select next eyeglass frame?
N
Finishing count of time for selecting eyeglass frame
Y
S. 43
Finishing count of selecting time and starting count of time for selecting next eyeglass frame
S. 44
Calculating selecting time by operation
S. 45
End

FIG. 8

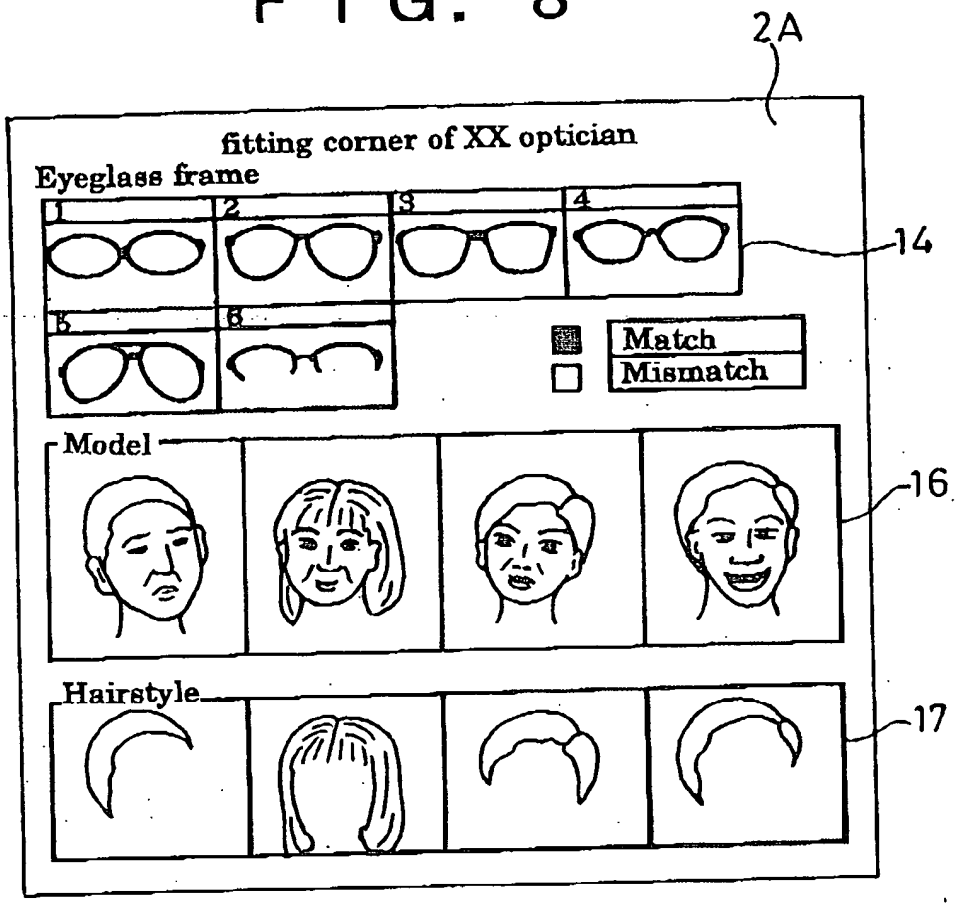
2A
fitting corner of XX optician
Eyeglass frame
1
2
3
4
5
6
14
Match
Mismatch
Model
16
Hairstyle
17

FIG. 9

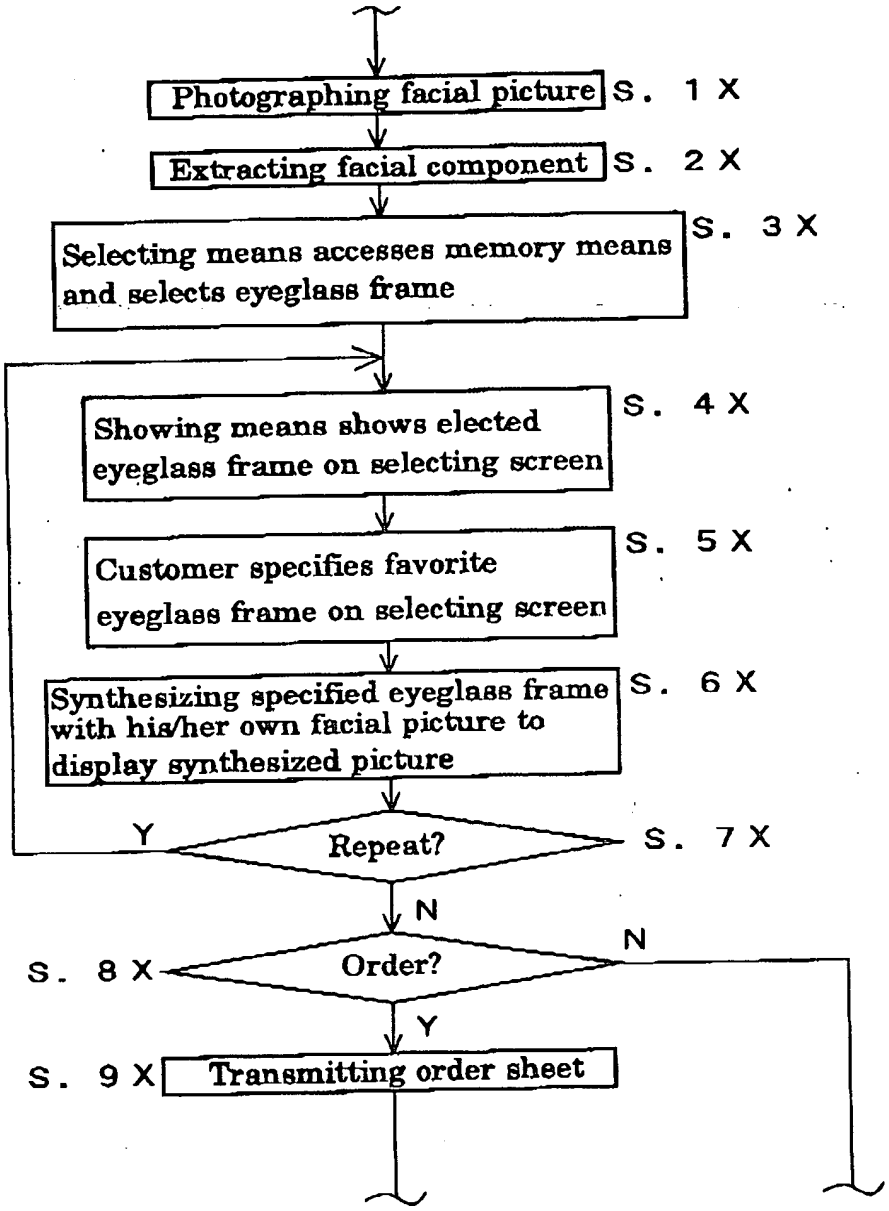
Photographing facial picture
S. 1 X
Extracting facial component
S. 2 X
Selecting means accesses memory means and selects eyeglass frame
S. 3 X
Showing means shows elected eyeglass frame on selecting screen
S. 4 X
Customer specifies favorite eyeglass frame on selecting screen
S. 5 X
Synthesizing specified eyeglass frame with his/her own facial picture to display synthesized picture
S. 6 X
Repeat?
Y
S. 7 X
N
Order?
S. 8 X
N
Y
Transmitting order sheet
S. 9 X

FIG. 10

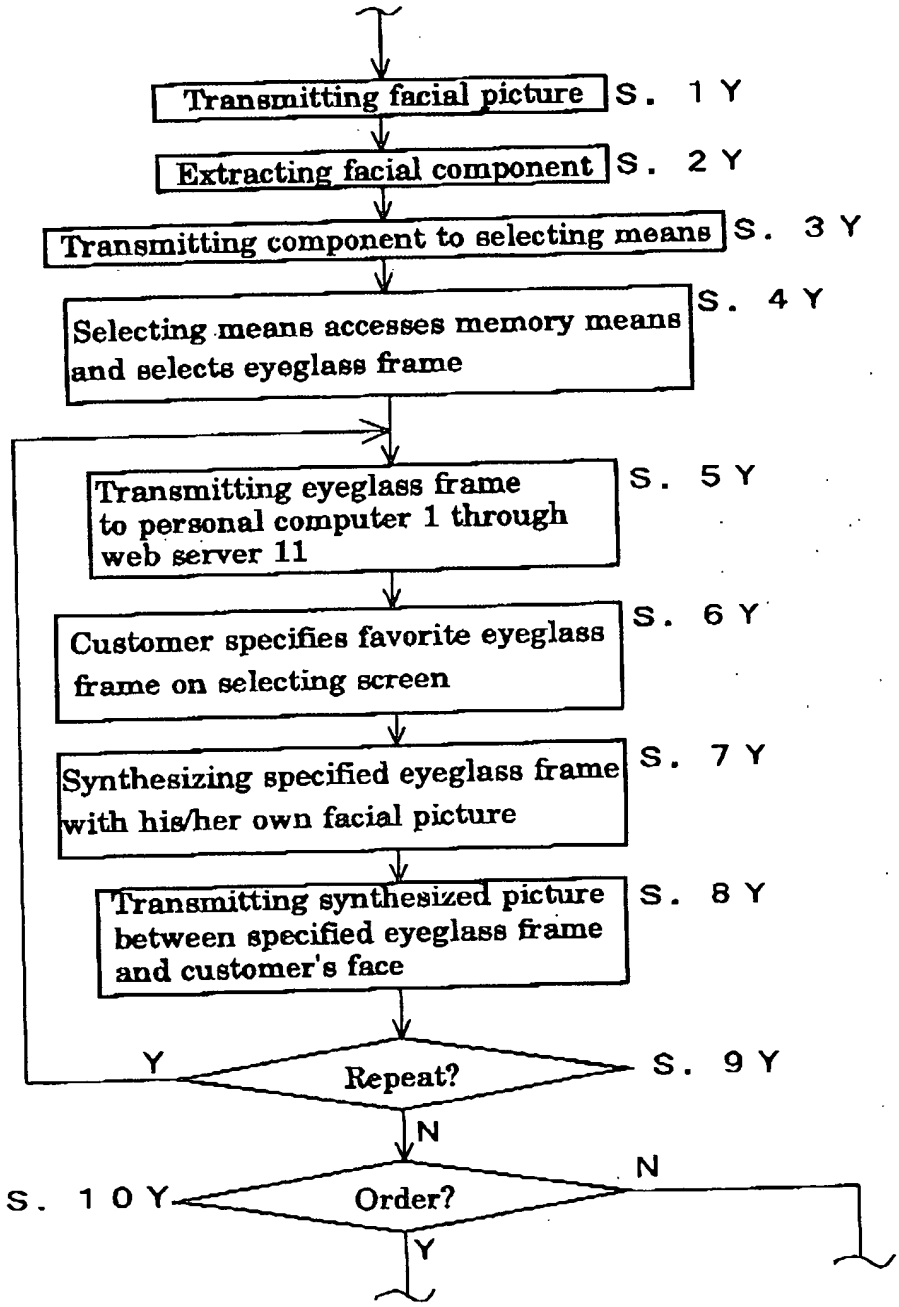
Transmitting facial picture
S. 1 Y
Extracting facial component
S. 2 Y
Transmitting component to selecting means
S. 3 Y
Selecting means accesses memory means and selects eyeglass frame
S. 4 Y
Transmitting eyeglass frame to personal computer 1 through web server 11
S. 5 Y
Customer specifies favorite eyeglass frame on selecting screen
S. 6 Y
Synthesizing specified eyeglass frame with his/her own facial picture
S. 7 Y
Transmitting synthesized picture between specified eyeglass frame and customer's face
S. 8 Y
Repeat?
Y
S. 9 Y
N
Order?
S. 10 Y
N
Y

FIG. 11

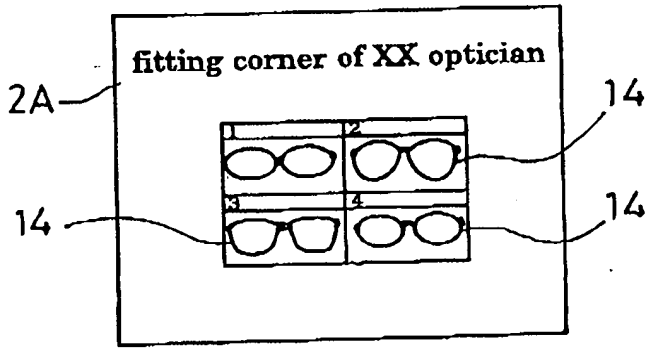


FIG. 12

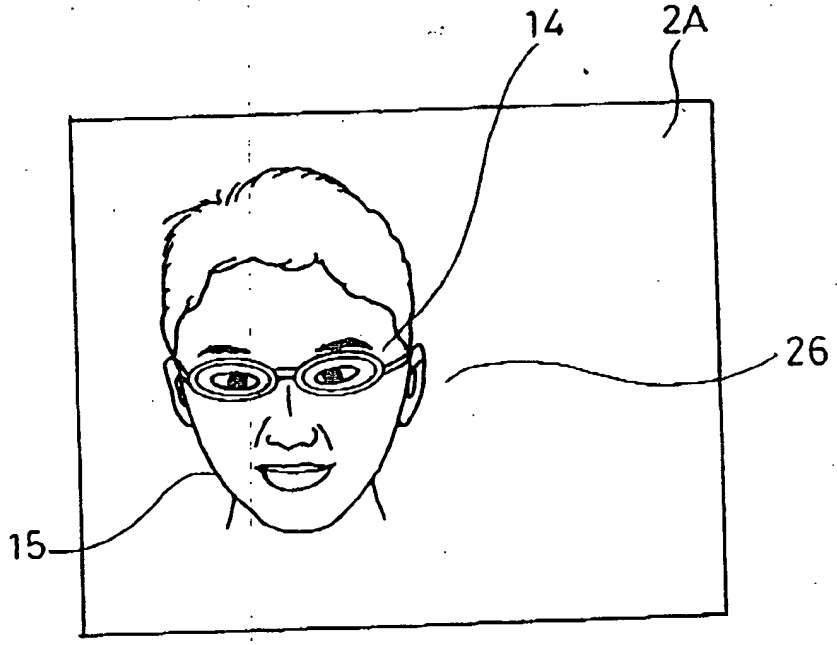

FIG. 13

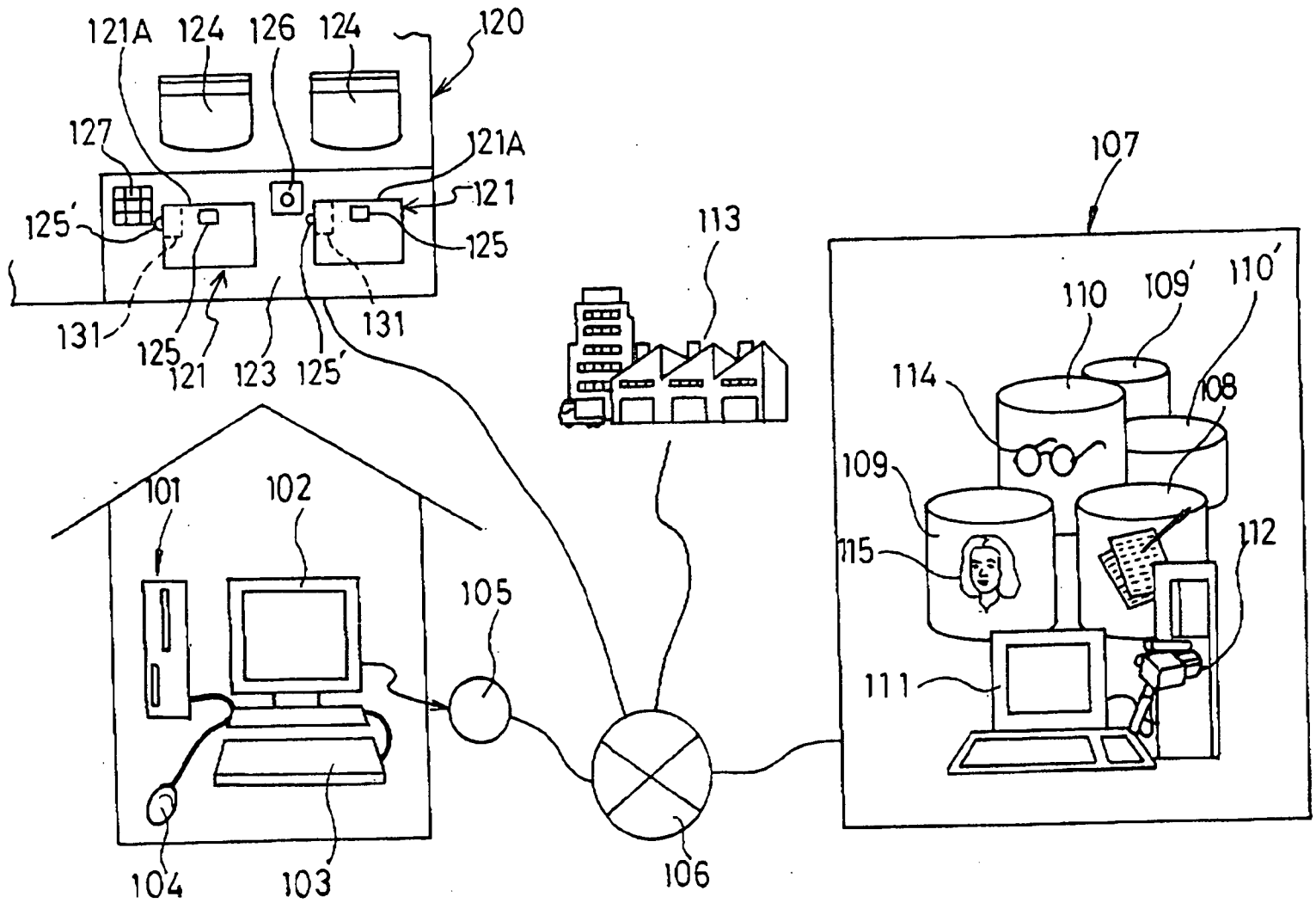
121A
124
126
124
120
127
121A
121
125'
125
131
125
121
123
125'
131
113
107
110
109'
110'
114
108
109
115
112
111
101
102
105
104
103
106

FIG. 14(a)

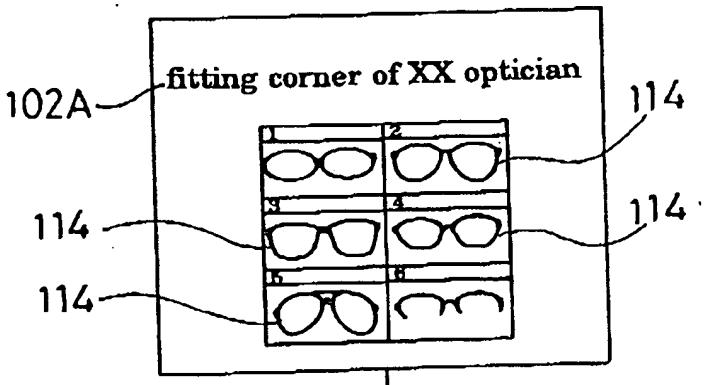


FIG. 14(b)

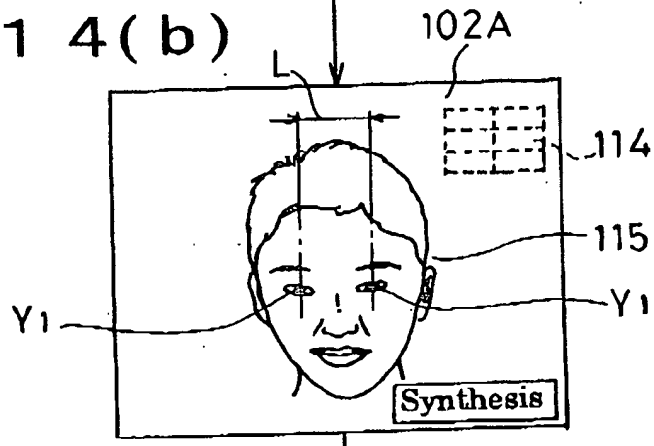


FIG. 14(c)

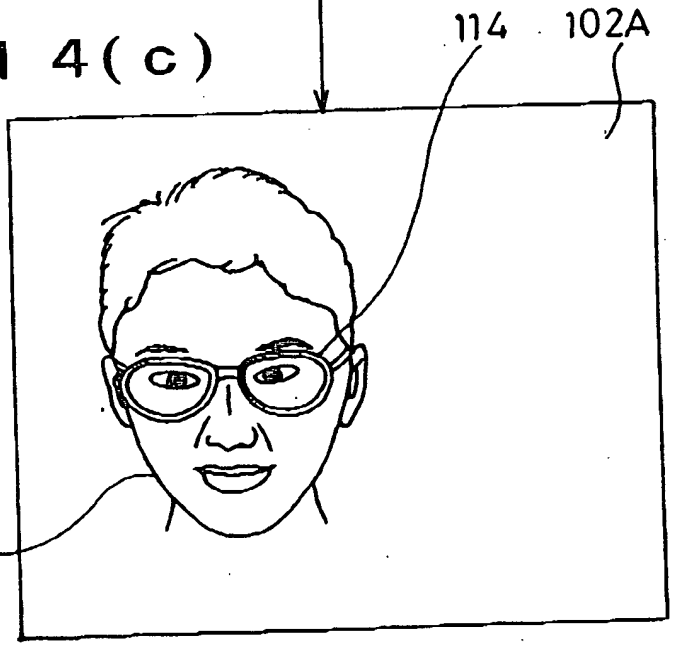

FIG. 15

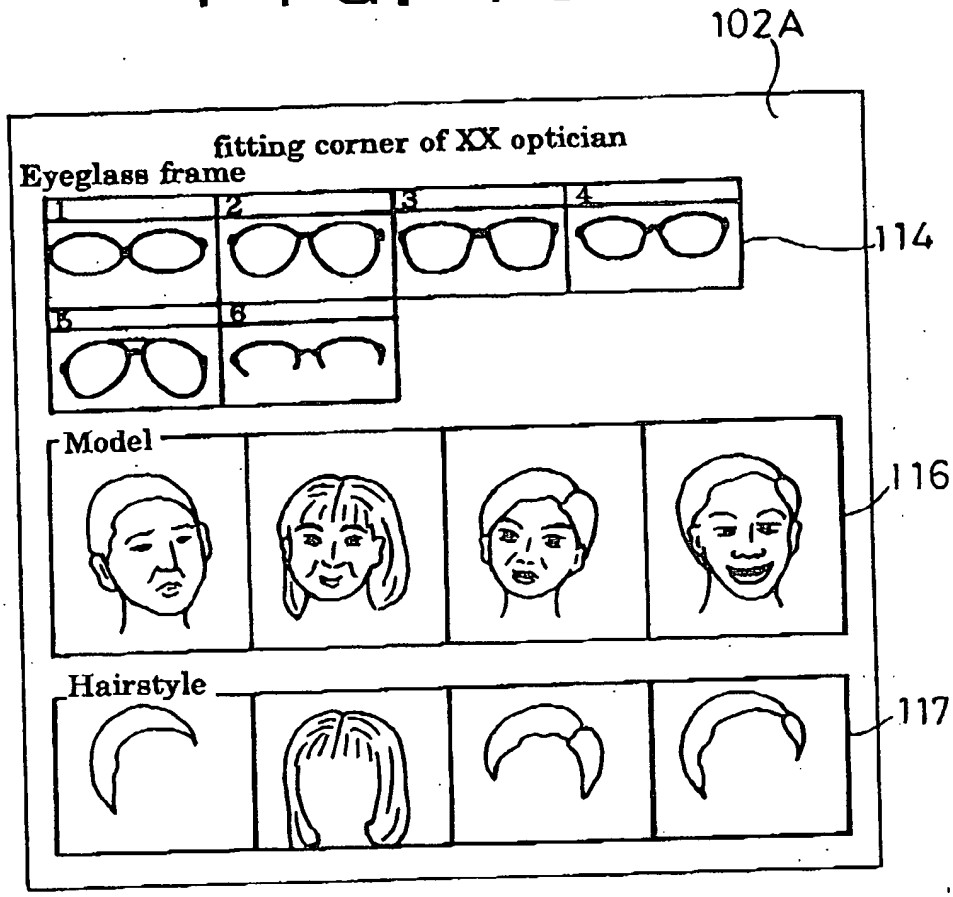
102A
fitting corner of XX optician
Eyeglass frame
1
2
3
4
5
6
114
Model
116
Hairstyle
117

FIG. 16

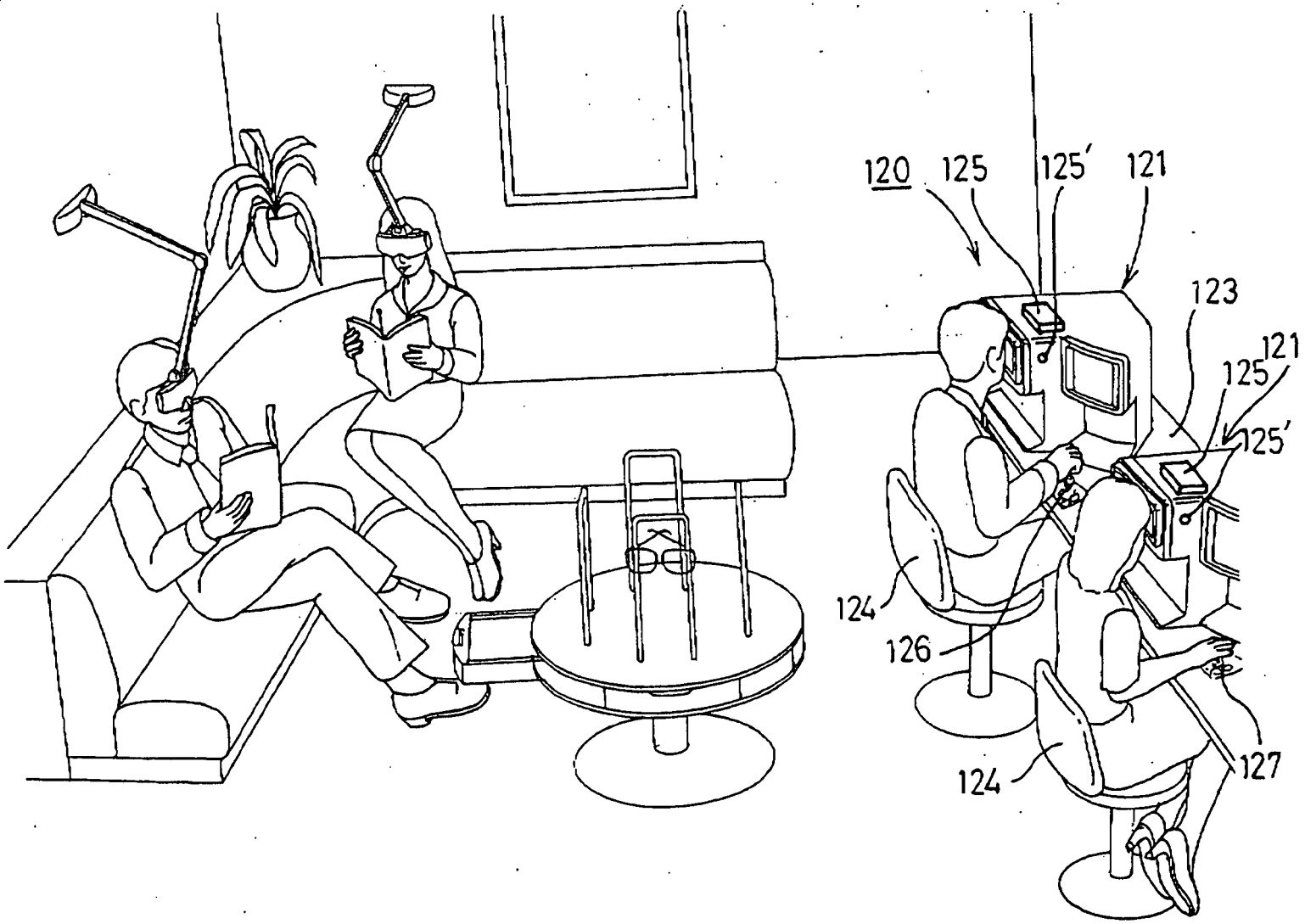

FIG. 17

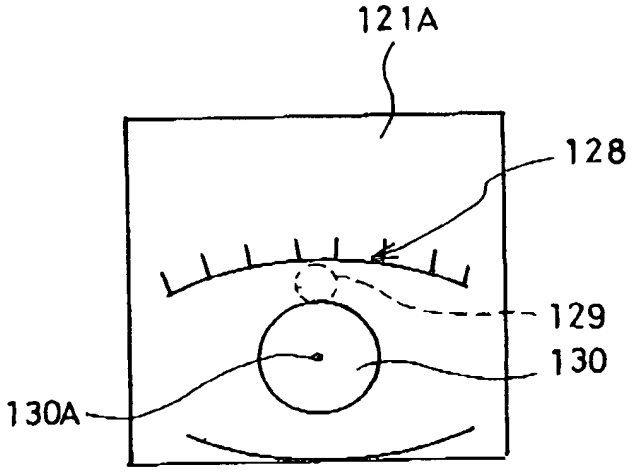

FIG. 18

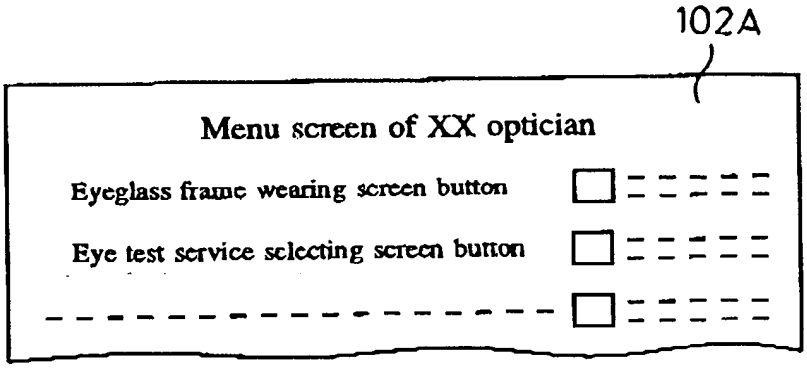
102A
Menu screen of XX optician
Eyeglass frame wearing screen button
Eye test service selecting screen button

FIG. 19

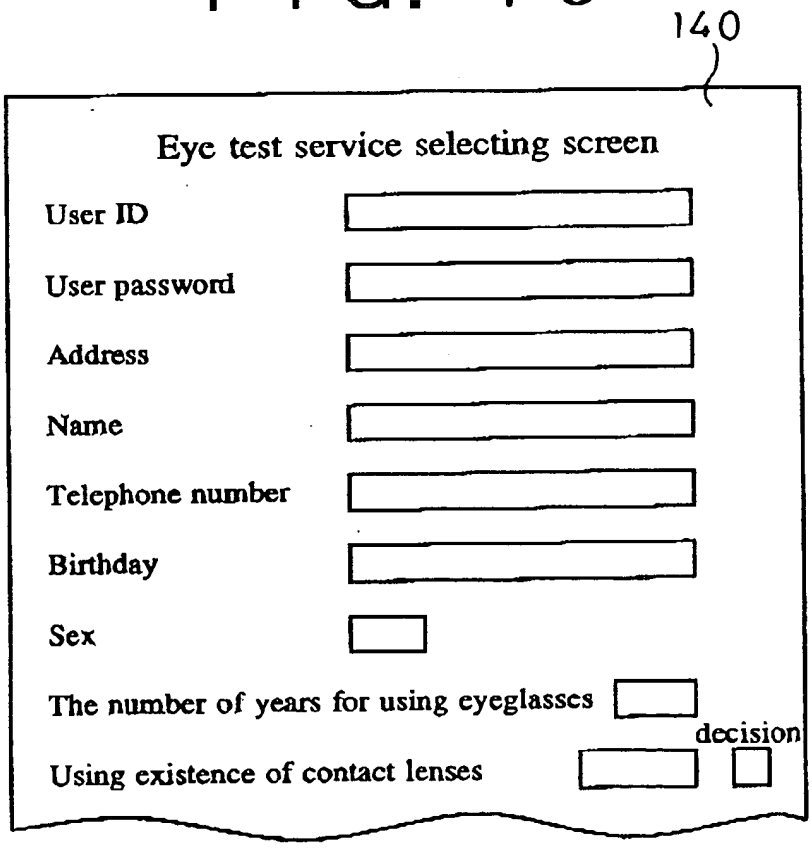
140
Eye test service selecting screen
User ID
User password
Address
Name
Telephone number
Birthday
Sex
The number of years for using eyeglasses
Using existence of contact lenses
decision

FIG. 20

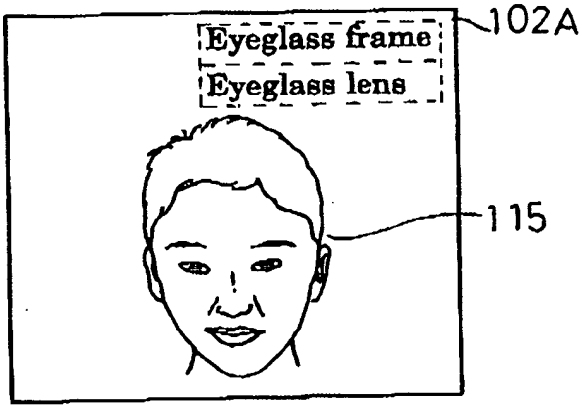


FIG. 21

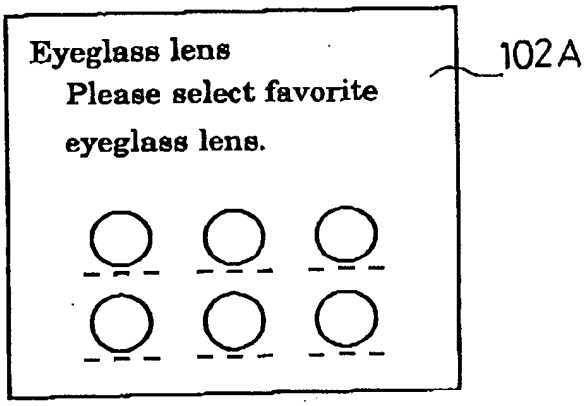


FIG. 22

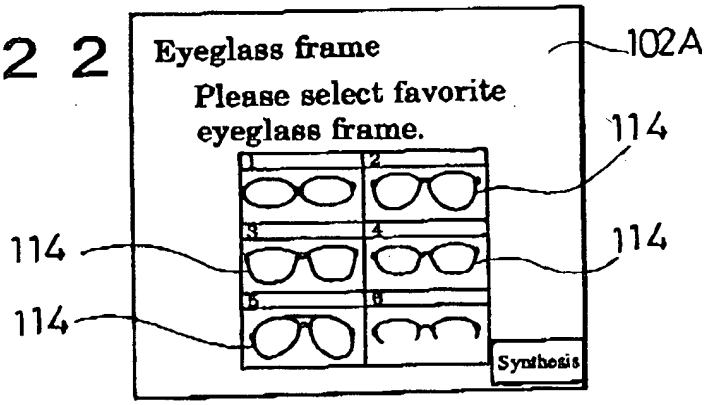
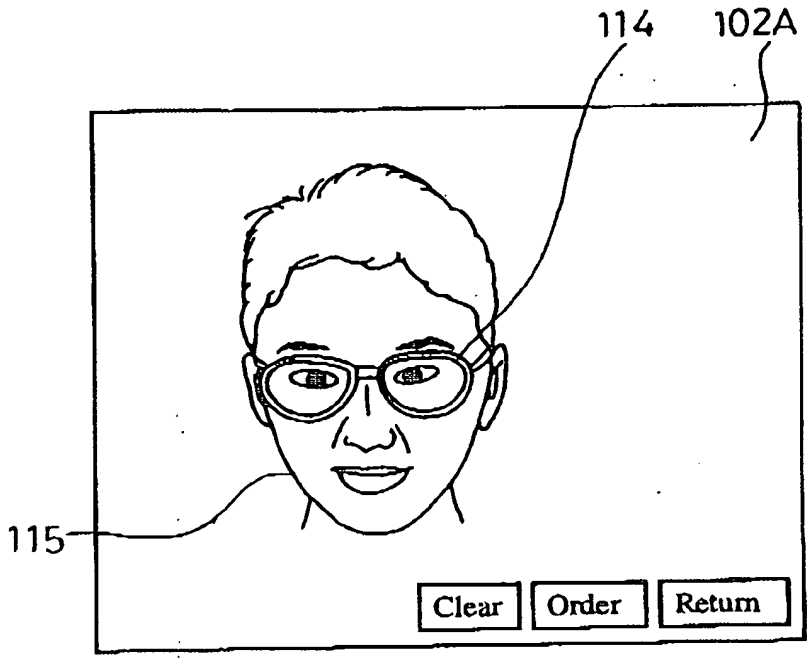
FIG. 23